

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,071,557 B2
APPLICATION NO. : 09/388031
DATED : July 4, 2006
INVENTOR(S) : Salman Akram

Page 1 of 5

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page showing the illustrative figure should be deleted to be replaced with the attached title page.

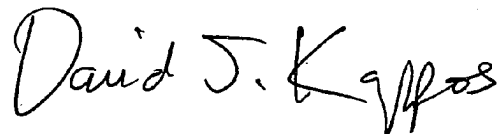
The drawing sheets, consisting of Figs. 3a, 3b and 5, should be deleted to be replaced with the drawing sheets, consisting of Figs. 3a, 3b and 5, as shown on the attached pages.

COLUMN 7, LINE 52, change "for sec ond" to --for second--

CLAIM 45,
COLUMN 12, LINE 47, change "The structure of claim **41**," to --The structure of claim **44**,--

Signed and Sealed this

Twenty-second Day of December, 2009

A handwritten signature in black ink, reading "David J. Kappos". The signature is written in a cursive, flowing style with a large initial 'D' and 'K'.

David J. Kappos
Director of the United States Patent and Trademark Office

(12) **United States Patent**
Akram

(10) **Patent No.:** **US 7,071,557 B2**
(45) **Date of Patent:** ***Jul. 4, 2006**

(54) **METALLIZATION STRUCTURES FOR SEMICONDUCTOR DEVICE INTERCONNECTS, METHODS FOR MAKING SAME, AND SEMICONDUCTOR DEVICES INCLUDING SAME**

(75) **Inventor:** **Salman Akram, Boise, ID (US)**

(73) **Assignee:** **Micron Technology, Inc., Boise, ID (US)**

(*) **Notice:** This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154 (a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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Primary Examiner—Eugene Lee

(74) *Attorney, Agent, or Firm*—TraskBritt

(21) **Appl. No.:** **09/388,031**

(22) **Filed:** **Sep. 1, 1999**

(65) **Prior Publication Data**

US 2002/0056914 A1 May 16, 2002

(51) **Int. Cl.**
H01L 23/52 (2006.01)

(52) **U.S. Cl.** **257/751; 257/748; 257/773; 257/774; 257/762; 257/758**

(58) **Field of Classification Search** **257/301, 257/296, 669, 750, 752, 486, 751, 748, 741, 257/773, 774, 762, 758; 438/625, 627, 643, 438/653**

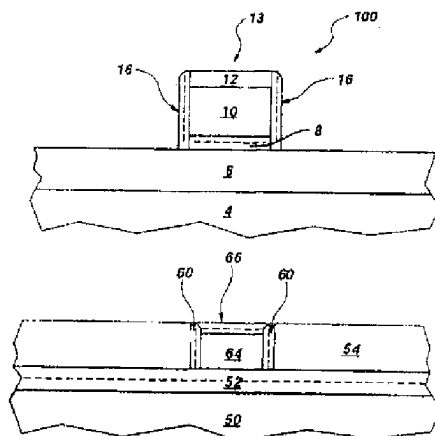
See application file for complete search history.

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52 Claims, 9 Drawing Sheets



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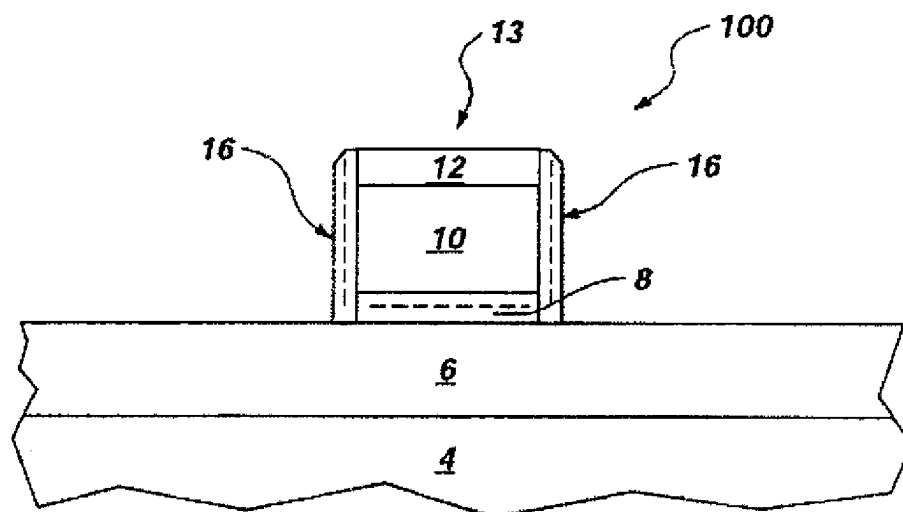


Fig. 3a

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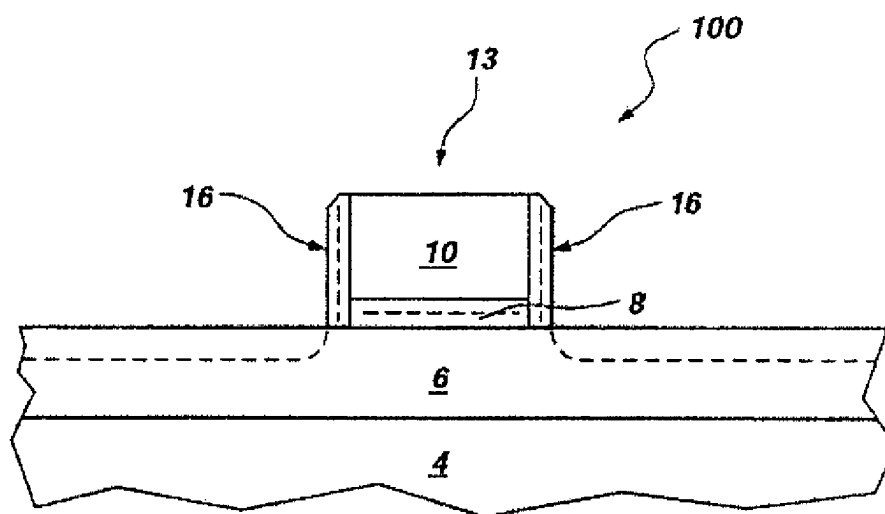


Fig. 3b

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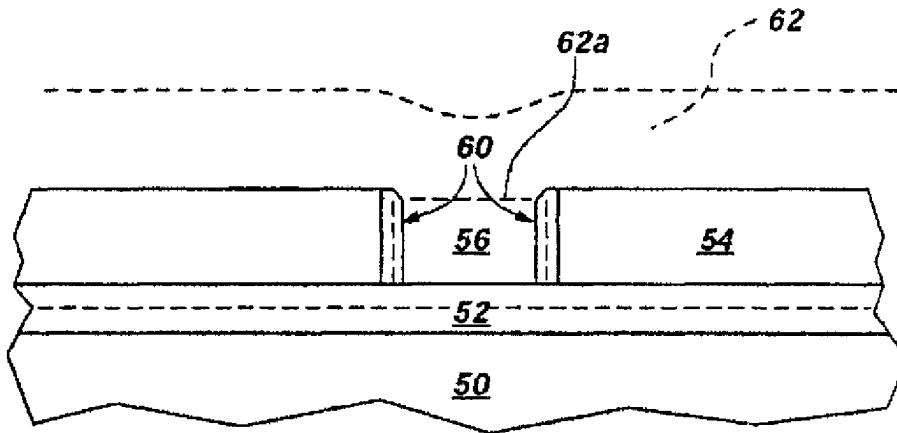


Fig. 5